<u>**Amendments to the Claims:**</u>

This listing of claims will replace all prior versions, and listings, of claims in the application:

5   <u>**Listing of Claims:**</u>

Claims 1-21 (Cancelled)

Claim 22 (Currently Amended): A method of frame synchronization for converting a

10   source frame to a destination frame, the source frame being received at a first frame rate and the destination frame being outputted at a second frame rate, the method comprising the following steps:

buffering at least a part of the source frame;

determining whether a predetermined condition is satisfied;

15   if the predetermined condition is satisfied, converting the source frame to the destination frame with a first amount of pixel data ~~such that the first frame rate is different from the second frame rate~~; and

if the predetermined condition is dissatisfied, converting the source frame to the destination frame with a second amount of pixel data ~~such that the first frame rate~~

20   ~~is substantially the same as the second frame rate~~;

wherein the first amount is different from the second amount[[.]]<u>;</u>

<u>wherein the first amount of pixel data comprises a third amount of invisible porch signals, the second amount of pixel data comprises a fourth amount of invisible porch signals, and the third amount is different from the fourth amount.</u>

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Claim 23 (Currently Amended): The method of claim 22, wherein the step of converting the source frame to the destination frame with the first amount of pixel data further comprises adjusting a time for generating a vertical sync signal such that the first frame rate is ~~substantially the same as~~ <u>different from</u> the second frame rate, and the

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step of converting the source frame to the destination frame with the second amount of pixel data further comprises keeping the time for generating the vertical sync signal unchanged such that the first frame rate is substantially the same as the second frame rate.

Claim 24 (Previously Presented): The method of claim 22, wherein the predetermined condition is a time interval between a last horizontal sync signal and a vertical sync signal shorter than a time limit, and the first amount is more than the second amount if the predetermined condition is satisfied.

Claim 25 (Previously Presented): The method of claim 22, wherein the predetermined condition is a number of pixel data for constructing the destination frame being an odd number, and the first amount is more than the second amount if the predetermined condition is satisfied.

Claim 26 (Currently Amended): The method of claim 22, wherein the predetermined condition is an overflow condition, and the first amount is fewer than the second amount ~~if the predetermined condition is satisfied~~.

Claim 27 (Previously Presented): The method of claim 26, wherein the step of determining whether the predetermined condition is satisfied comprises: determining whether the amount of the source frame being buffered is over a maximum level.

Claim 28 (Currently Amended): The method of claim 22, wherein the predetermined condition is an underflow condition, and the first amount is more than the second amount ~~if the predetermined condition is satisfied~~.

Claim 29 (Previously Presented): The method of claim 28, wherein the step of

determining whether the predetermined condition is satisfied comprises:

determining whether the amount of the source frame being buffered is under a

minimum level.

5   Claim 30 (Cancelled)

Claim 31 (Currently Amended): A method of frame synchronization for converting a

source frame to a destination frame, the source frame being received at a first frame

rate and the destination frame being outputted at a second frame rate, the destination

10   frame comprising a plurality of horizontal lines, the method comprising the

following steps:

buffering at least a part of the source frame;

determining whether a predetermined condition is satisfied; and

if the predetermined condition is satisfied, generating a first horizontal line of the

15   horizontal lines corresponding to a first horizontal sync period and generating a

second horizontal line of the horizontal lines corresponding to a second horizontal

sync period;

wherein the first horizontal sync period is different from the second horizontal sync

period[[.]]:

20   wherein the first horizontal line comprises a first amount of pixel data comprising a

third amount of invisible porch signals, the second horizontal line comprises a

second amount of pixel data comprising a fourth amount of invisible porch

signals, the first amount is different from the second amount, and the third

amount is different from the fourth amount.

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Claims 32-33 (Cancelled)

Claim 34 (Previously Presented): The method of claim 31, wherein the first frame rate is

the same as the second frame rate.

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Claim 35 (Previously Presented): The method of claim 31, wherein the predetermined
condition is a time interval between a last horizontal sync signal and a vertical sync
signal shorter than a time limit.

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Claim 36 (Currently Amended): An apparatus for converting a source frame to a
destination frame, the source frame being received at a first frame rate and the
destination frame being output at a second frame rate, the apparatus comprising:
a buffer for storing at least a part of the source frame; and

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a converter for ~~determining whether a predetermined condition is satisfied, the converter~~ converting the source frame to the destination frame with a first amount
of pixel data if [[the]]a predetermined condition is satisfied ~~such that the first frame rate is different from the second frame rate~~, and converting the source
frame to the destination frame with a second amount of pixel data if the

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predetermined condition is dissatisfied ~~such that the first frame rate is substantially the same as the second frame rate~~;
wherein the first amount is different from the second amount[[.]];
<u>wherein the first amount of pixel data comprises a third amount of invisible porch
signals, the second amount of pixel data comprises a fourth amount of invisible</u>

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<u>porch signals, and the third amount is different from the fourth amount.</u>

Claim 37 (Previously Presented): The apparatus of claim 36, wherein the converter adjust
a time for generating a vertical sync signal if the predetermined condition is
satisfied such that the first frame rate is different from the second frame rate, and the

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converter keeps the time for generating the vertical sync signal unchanged if the
predetermined condition is dissatisfied such that the first frame rate is substantially
the same as the second frame rate.

Claim 38 (Previously Presented): The apparatus of claim 36, wherein the predetermined

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condition is a time interval between a last horizontal sync signal and a vertical sync signal shorter than a time limit, and the first amount is more than the second amount if the predetermined condition is satisfied.

5   Claim 39 (Previously Presented): The apparatus of claim 36, wherein the predetermined condition is a number of pixel data for constructing the destination frame being an odd number, and the first amount is more than the second amount if the predetermined condition is satisfied.

10   Claim 40 (Currently Amended): The apparatus of claim 36, wherein the predetermined condition is an overflow condition happened to the buffer, and the first amount is fewer than the second amount ~~if the predetermined condition is satisfied~~.

Claim 41 (Currently Amended): The ~~method~~ apparatus of claim 40, wherein the converter
15   determines whether the amount of the source frame being buffered is over a maximum level.

Claim 42 (Currently Amended): The apparatus of claim 36, wherein the predetermined condition is an underflow condition happened to the buffer, and the first amount is
20   more than the second amount ~~if the predetermined condition is satisfied~~.

Claim 43 (Currently Amended): The ~~method~~ apparatus of claim 42, wherein the converter determines whether the amount of the source frame being buffered is under a maximum level.
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Claim 44 (Cancelled)

Claim 45 (Previously Presented): The apparatus of claim 36, wherein the buffer is a first-in-first-out (FIFO) buffer.

Claim 46 (Currently Amended): An apparatus for converting a source frame to a destination frame, the source frame being received at a first frame rate and the destination frame being output at a second frame rate, the destination frame comprising a plurality of horizontal lines, the apparatus comprising:

a buffer for storing at least a part of the source frame; and

a converter coupled to the buffer for determining whether a predetermined condition is satisfied, the converter generating a first horizontal line of the horizontal lines corresponding to a first horizontal sync period and a second horizontal line of the horizontal lines corresponding to a second horizontal sync period if the predetermined condition is satisfied;

wherein the first horizontal sync period is different from the second horizontal sync period[[.]];

wherein the first horizontal line comprises a first amount of pixel data comprising a third amount of invisible porch signals, the second horizontal line comprises a second amount of pixel data comprising a fourth amount of invisible porch signals, the first amount is different from the second amount, and the third amount is different from the fourth amount.

Claims 47-48 (Cancelled)

Claim 49 (Currently Amended): The ~~method~~ apparatus of claim 46, wherein the first frame rate is the same as the second frame rate.

Claim 50 (Currently Amended): The ~~method~~ apparatus of claim 46, wherein the predetermined condition is a time interval between a last horizontal sync signal and a vertical sync signal shorter than a time limit.

Claim 51 (Previously Presented): The apparatus of claim 46, wherein the buffer is a

first-in-first-out (FIFO) buffer.

Claim 52 (New): The method of claim 22, wherein the predetermined condition is an overflow condition or an underflow condition.

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Claim 53 (New): The apparatus of claim 36, wherein the predetermined condition is an overflow condition or an underflow condition.